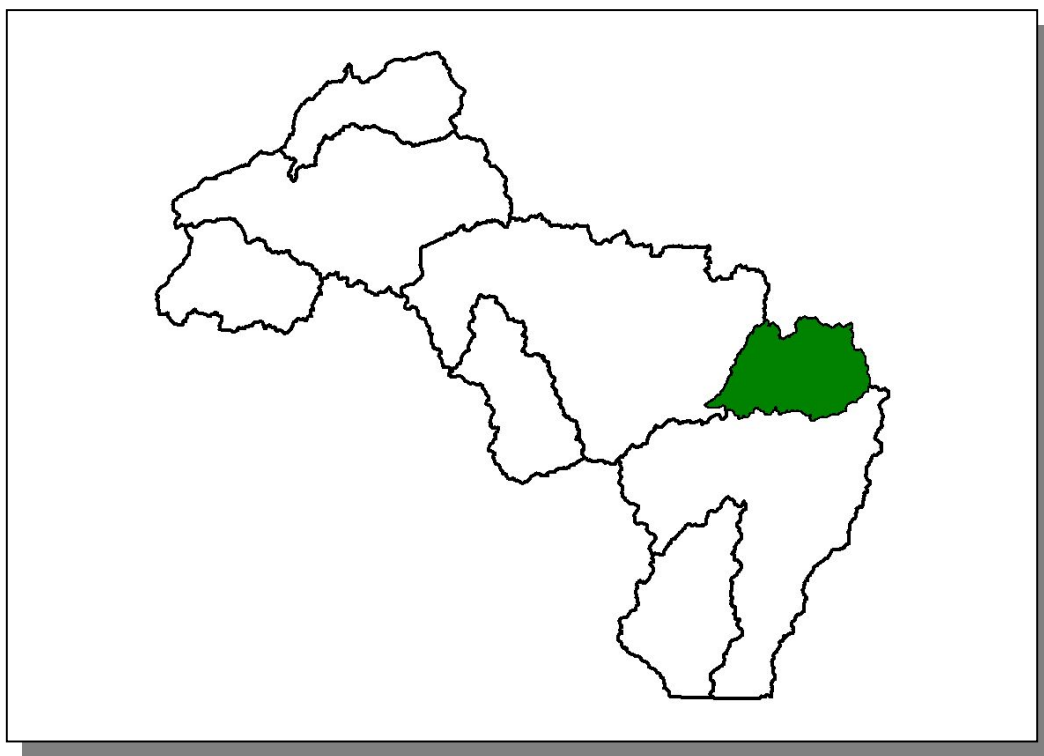
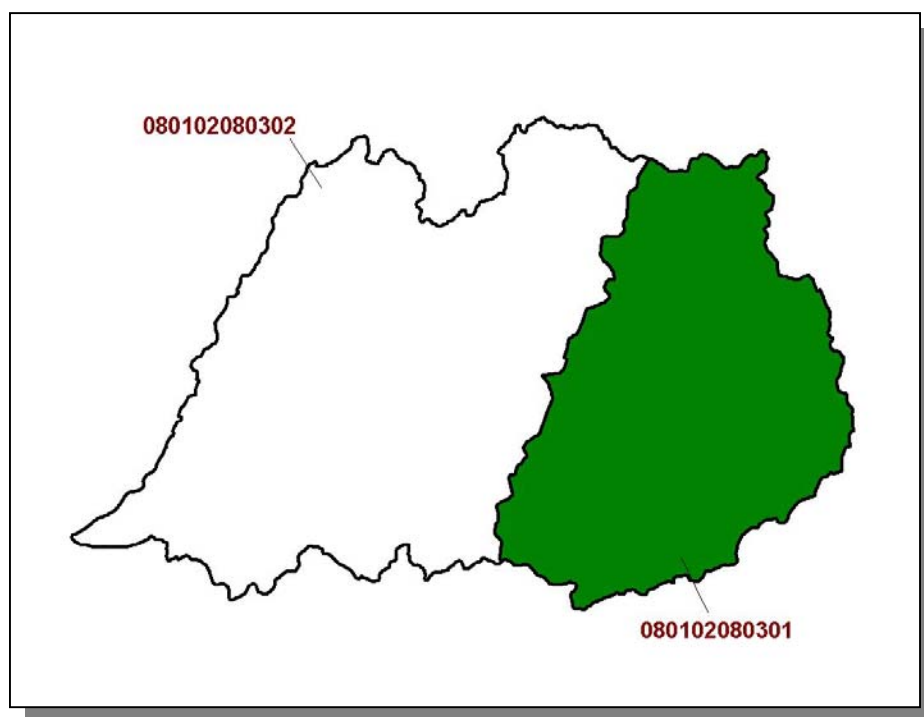


**4.2.C. 0801020803.**

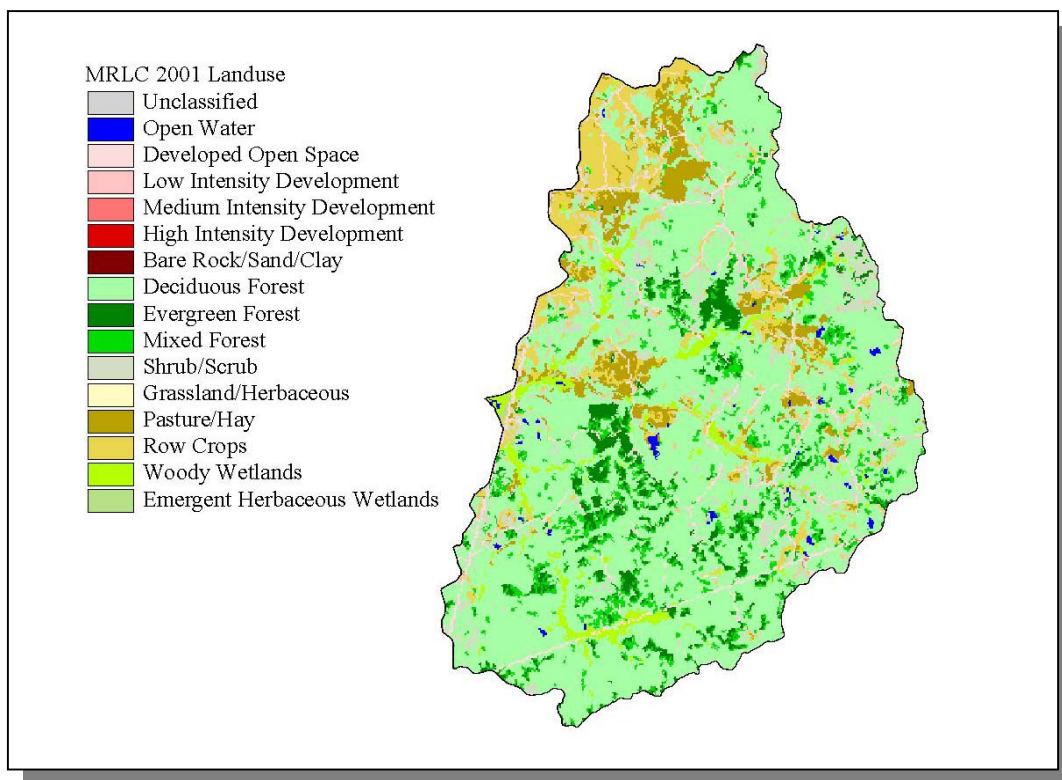


**Figure 4-104. Location of Subwatershed 0801020803.** All Hatchie River HUC-10 subwatershed boundaries in Tennessee are shown for reference.

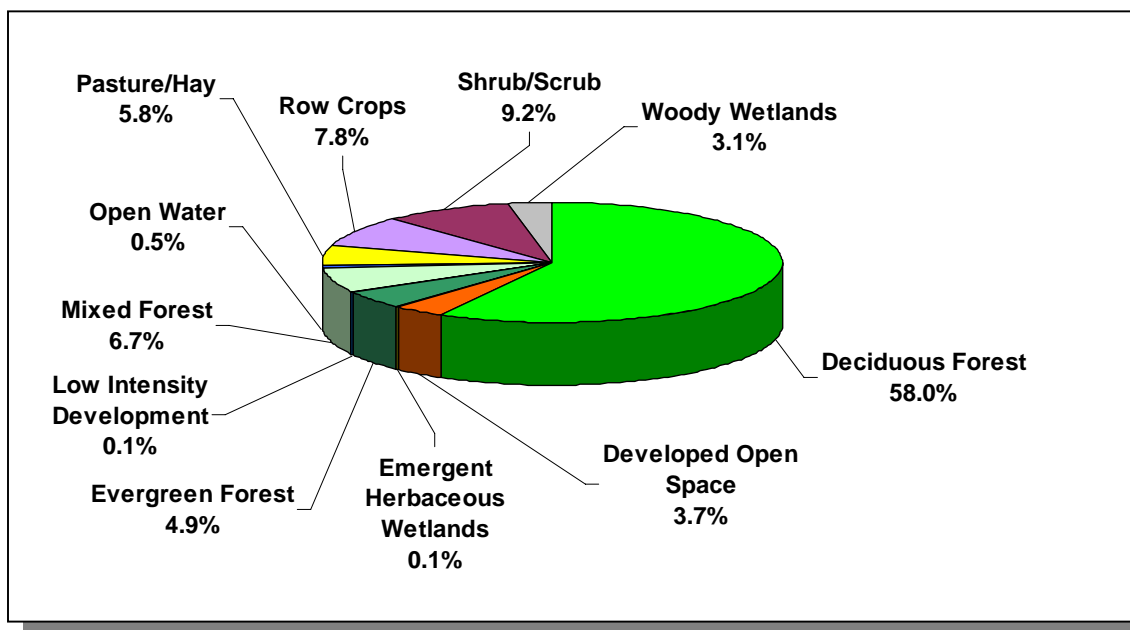
**4.2.C.i.** 080102080301 (Lacy Creek).



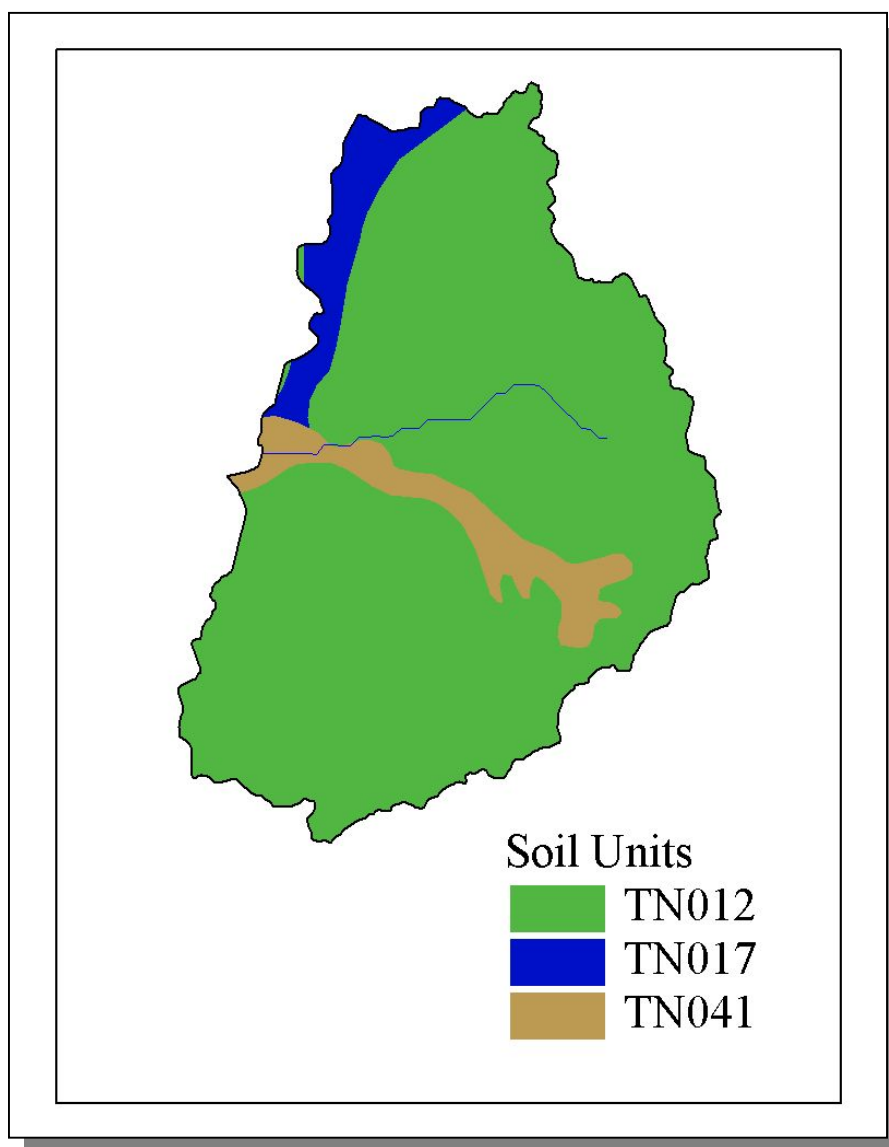
**Figure 4-105. Location of Subwatershed 080102080301.** All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.



**Figure 4-106. Illustration of Land Use Distribution in Subwatershed 080102080301.**



**Figure 4-107. Land Use Distribution in Subwatershed 080102080301.** More information is provided in Appendix IV.



**Figure 4-108. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080301.**

| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN012                  | 1.00              | C                   | 2.52                      | 5.13       | Silty Loam                | 0.39                |
| TN017                  | 0.00              | B                   | 1.81                      | 5.26       | Silty Loam                | 0.45                |
| TN041                  | 59.00             | C                   | 1.35                      | 4.98       | Silty Loam                | 0.34                |

**Table 4-87. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080301.** The definition of "Hydrologic Group" is provided in Appendix IV.

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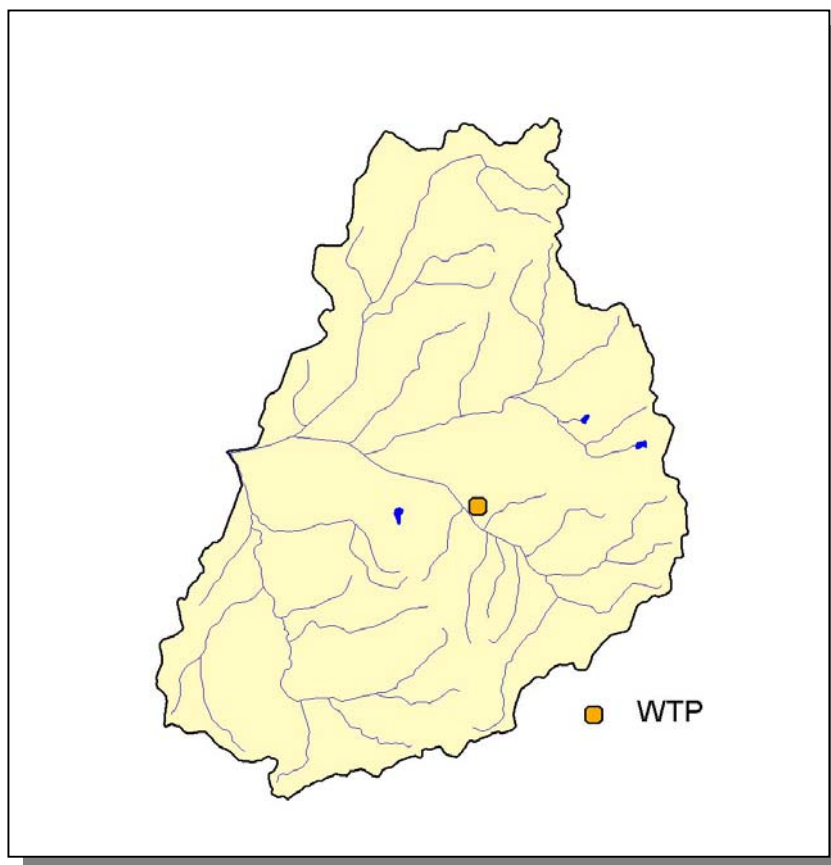
| County       | COUNTY POPULATION |                |                | Portion of Watershed (%) | ESTIMATED POPULATION IN WATERSHED |              |              | % Change (1990-2000) |
|--------------|-------------------|----------------|----------------|--------------------------|-----------------------------------|--------------|--------------|----------------------|
|              | 1990              | 1997           | 2000           |                          | 1990                              | 1997         | 2000         |                      |
| Chester      | 12,819            | 14,469         | 15,540         | 4.8                      | 616                               | 695          | 747          | 21.3                 |
| Hardeman     | 23,377            | 24,702         | 28,105         | 1.78                     | 416                               | 439          | 500          | 20.2                 |
| Madison      | 77,982            | 84,942         | 91,837         | 1.67                     | 1,305                             | 1,422        | 1,537        | 17.8                 |
| <b>Total</b> | <b>114,178</b>    | <b>124,113</b> | <b>135,482</b> |                          | <b>2,337</b>                      | <b>2,556</b> | <b>2,784</b> | <b>19.1</b>          |

*Table 4-88. Population Estimates in Subwatershed 080102080301.*

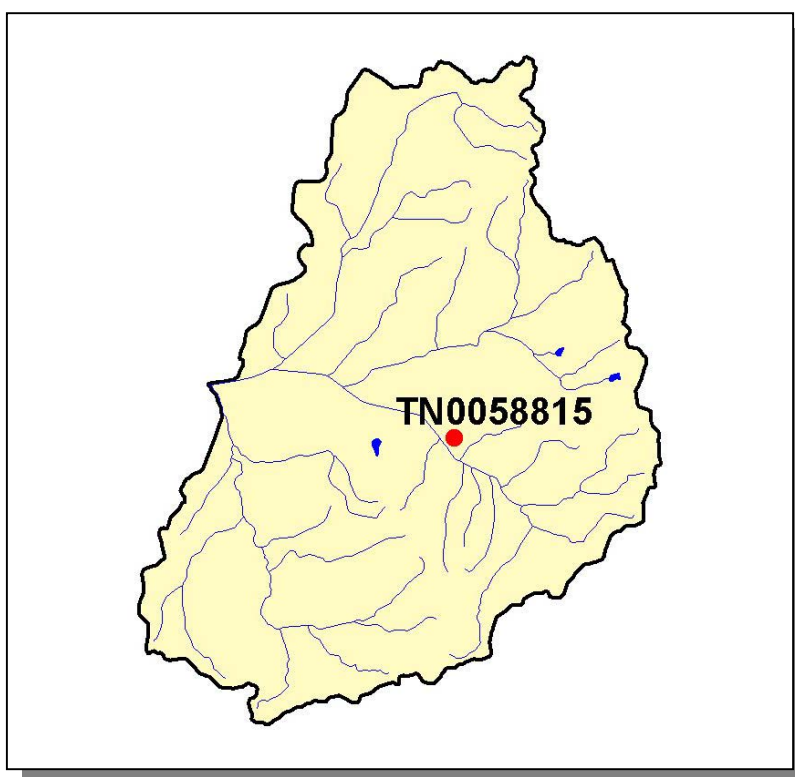
|                 |         |            | NUMBER OF HOUSING UNITS |              |             |       |
|-----------------|---------|------------|-------------------------|--------------|-------------|-------|
| Populated Place | County  | Population | Total                   | Public Sewer | Septic Tank | Other |
| Medon           | Madison | 107        | 60                      | 0            | 56          | 4     |

*Table 4-89. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102080301.*

**4.2.C.i.a. Point Source Contributions.**



**Figure 4-109. Location of Permits Issued in Subwatershed 080102080301.** More information, including the names of facilities, is provided in Appendix IV.



**Figure 4-110. Location of Water Treatment Plants in Subwatershed 080102080301.** More information, including the names of facilities, is provided in Appendix IV.



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**4.2.C.i.b. Nonpoint Source Contributions.**

| LIVESTOCK COUNTS |        |                   |      |       |
|------------------|--------|-------------------|------|-------|
| Beef Cow         | Cattle | Chickens (Layers) | Hogs | Sheep |
| 51               | 730    | <5                | 236  | <5    |

**Table 4-90. Summary of Livestock Count Estimates in Subwatershed 080102080301.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| LIVESTOCK COUNTS |          |        |          |                   |        |       |
|------------------|----------|--------|----------|-------------------|--------|-------|
| County           | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs   | Sheep |
| Chester          | 0        | 9,108  | 0        | 14                | 1,334  | 0     |
| Hardeman         | 9,184    | 15,877 | 62       | 28                | 5,221  | 144   |
| Madison          | 0        | 12,437 | 0        | 476               | 10,210 | 0     |

**Table 4-91. Summary of Livestock Count Estimates in Chester, Hardeman, and Madison Counties.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| County   | INVENTORY                       |                                 | REMOVAL RATE                          |                                   |
|----------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
|          | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
| Chester  | 99.4                            | 99.4                            | 0.3                                   | 1.3                               |
| Hardeman | 247.1                           | 247.1                           | 5.0                                   | 18.6                              |
| Madison  | 140.7                           | 140.7                           | 2.4                                   | 11.5                              |

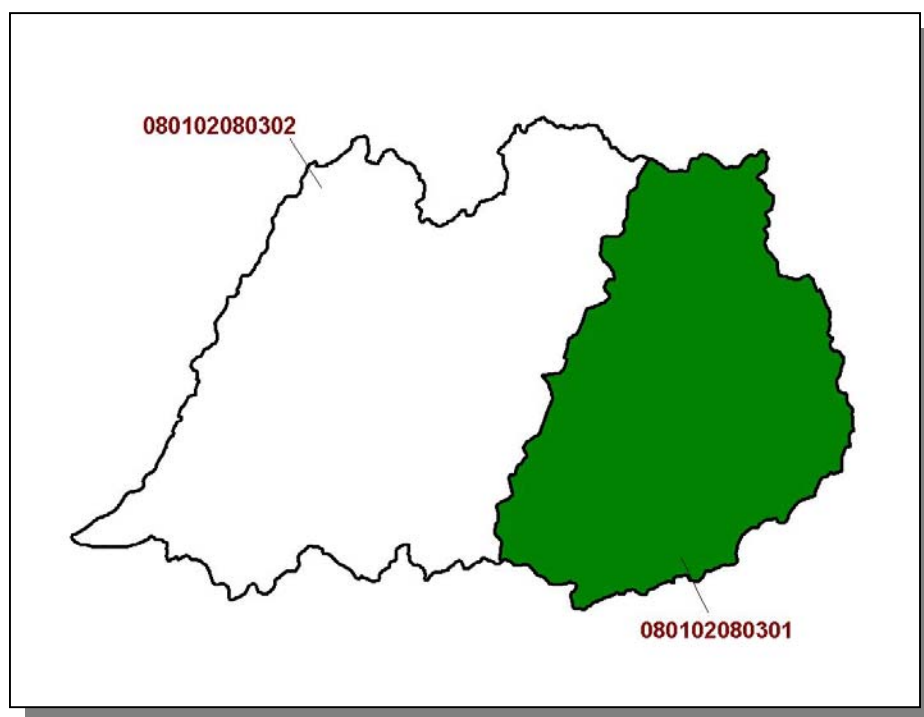
**Table 4-92. Forest Acreage and Annual Removal Rates (1987-1994) in Chester, Hardeman, and Madison Counties.**

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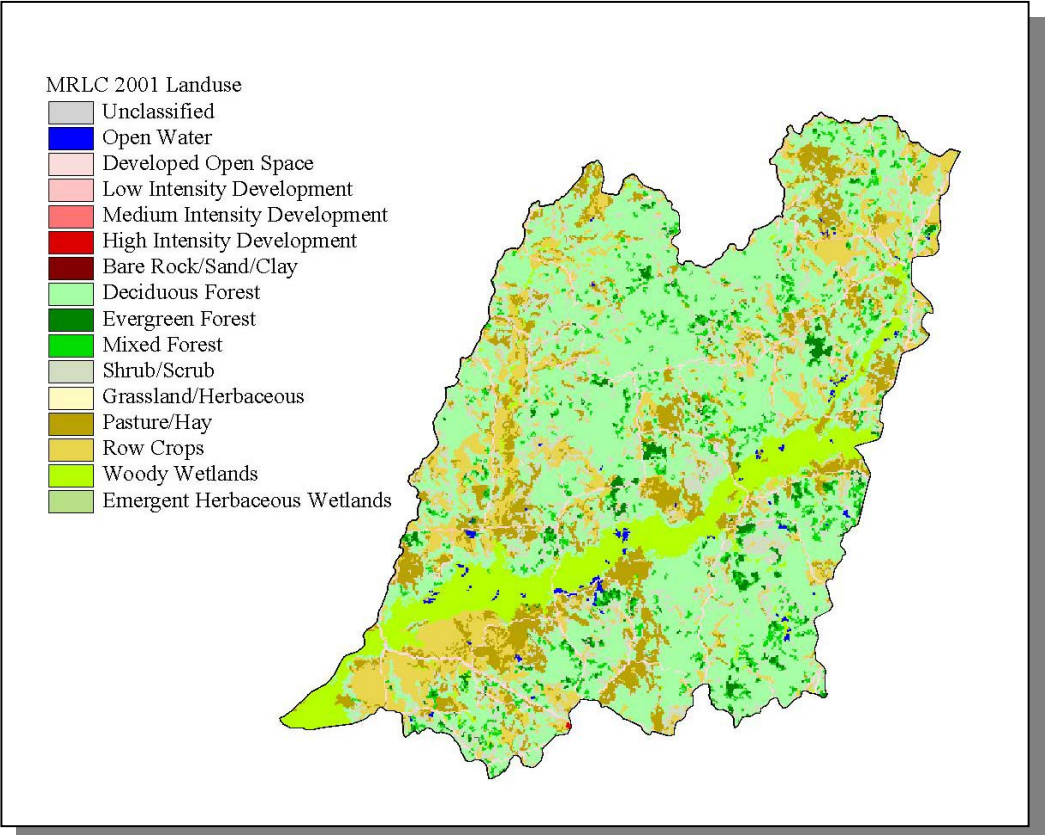
| <b>CROPS</b>                          | <b>TONS/ACRE/YEAR</b> |
|---------------------------------------|-----------------------|
| Grass (Pastureland)                   | 0.66                  |
| Grass (Hayland)                       | 0.50                  |
| Legumes, Grass (Hayland)              | 0.21                  |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.41                  |
| Corn (Row Crops)                      | 11.77                 |
| Cotton (Row Crops)                    | 19.94                 |
| Sorghum (Row Crops)                   | 3.04                  |
| Soybeans (Row Crops)                  | 9.08                  |
| Wheat (Close-Grown Cropland)          | 10.20                 |
| All Other Close-Grown Cropland        | 0.47                  |
| Other Vegetable and Truck Crops       | 19.89                 |
| Summer fallow (Other Cropland)        | 6.11                  |
| Other Cropland not Planted            | 2.10                  |
| Conservation Reserve Program Lands    | 0.39                  |
| Other Land in Farms                   | 0.08                  |
| Farmsteads and Ranch Headquarters     | 0.48                  |

**Table 4-93. Annual Estimated Total Soil Loss in Subwatershed 080102080301.**

**4.2.C.ii.** 080102080302 (Clover Creek).

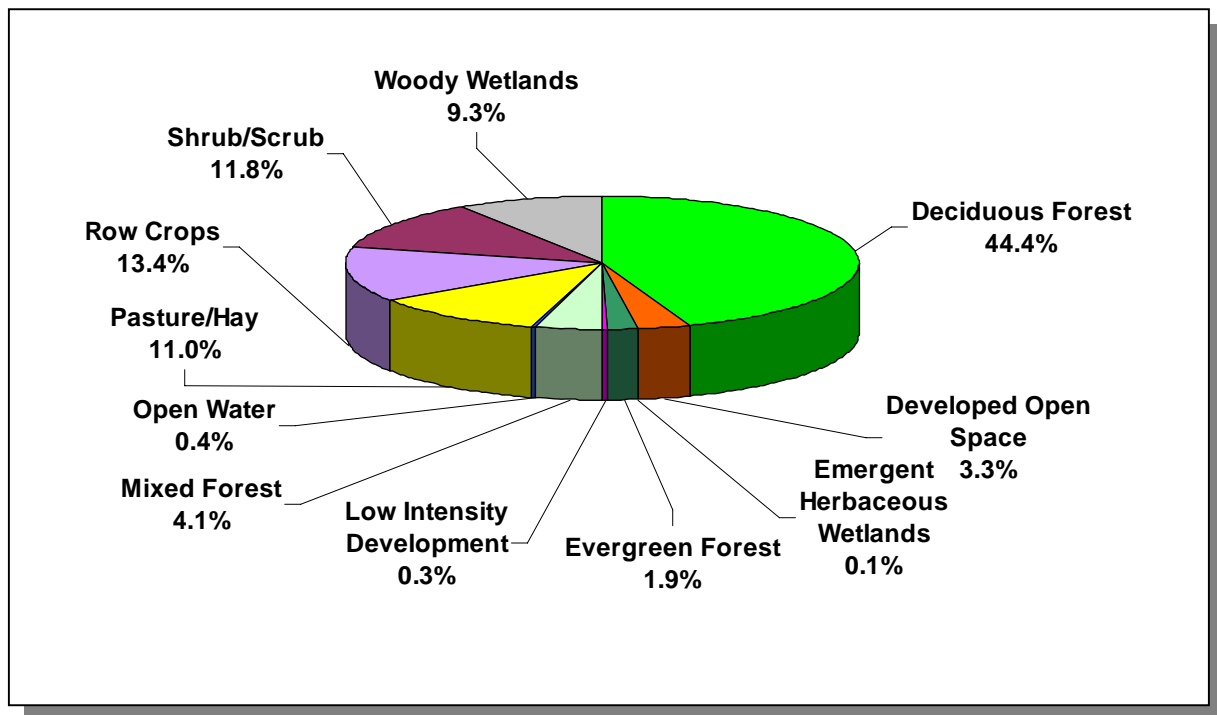


**Figure 4-111. Location of Subwatershed 080102080302.** All Hatchie River HUC-12 subwatershed boundaries in Tennessee are shown for reference.

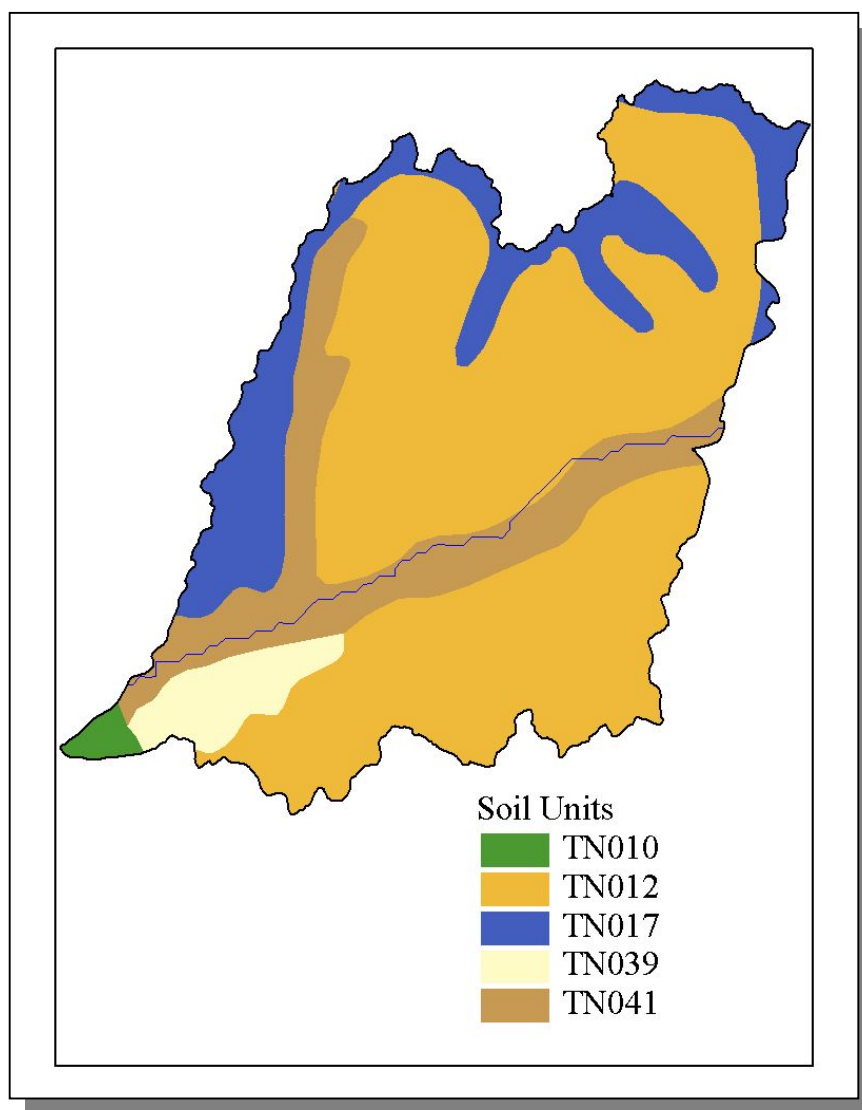


**Figure 4-112. Illustration of Land Use Distribution in Subwatershed 080102080302.**

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**Figure 4-113. Land Use Distribution in Subwatershed 080102080302.** More information is provided in Appendix IV.



**Figure 4-114. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080302.**

| STATSGO<br>MAP UNIT ID | PERCENT<br>HYDRIC | HYDROLOGIC<br>GROUP | PERMEABILITY<br>(in/hour) | SOIL<br>pH | ESTIMATED<br>SOIL TEXTURE | SOIL<br>ERODIBILITY |
|------------------------|-------------------|---------------------|---------------------------|------------|---------------------------|---------------------|
| TN010                  | 81.00             | C                   | 1.33                      | 5.11       | Silty Loam                | 0.44                |
| TN012                  | 1.00              | C                   | 2.52                      | 5.13       | Silty Loam                | 0.39                |
| TN017                  | 0.00              | B                   | 1.81                      | 5.26       | Silty Loam                | 0.45                |
| TN039                  | 24.00             | C                   | 1.35                      | 5.20       | Silty Loam                | 0.47                |
| TN041                  | 59.00             | C                   | 1.35                      | 4.98       | Silty Loam                | 0.34                |

**Table 4-94. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 080102080302.** The definition of "Hydrologic Group" is provided in Appendix IV.

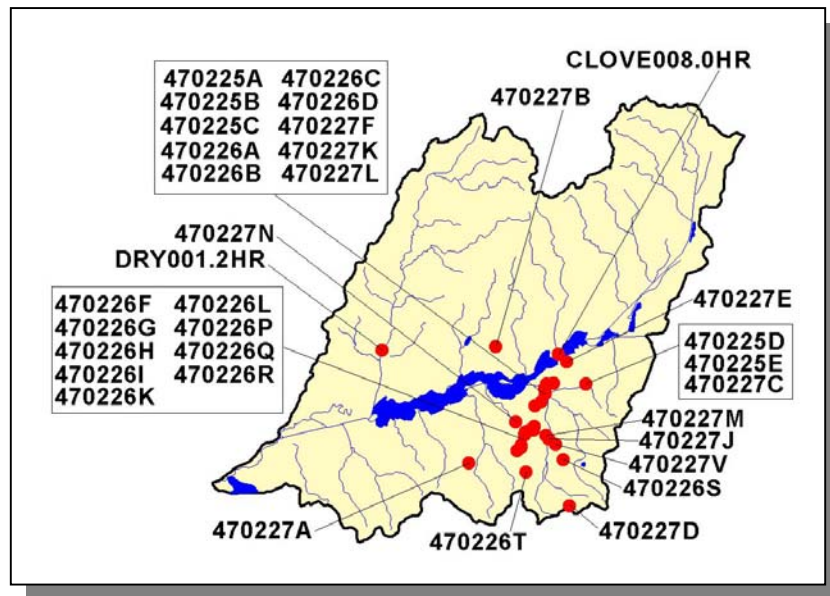
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| County       | COUNTY POPULATION |                |                | Portion of Watershed (%) | ESTIMATED POPULATION IN WATERSHED |              |              | % Change (1990-2000) |
|--------------|-------------------|----------------|----------------|--------------------------|-----------------------------------|--------------|--------------|----------------------|
|              | 1990              | 1997           | 2000           |                          | 1990                              | 1997         | 2000         |                      |
| Hardeman     | 23,377            | 24,702         | 28,105         | 4.9                      | 1,145                             | 1,210        | 1,377        | 20.3                 |
| Madison      | 77,982            | 84,942         | 91,837         | 3.32                     | 2,586                             | 2,817        | 3,045        | 17.7                 |
| <b>Total</b> | <b>101,359</b>    | <b>109,644</b> | <b>119,942</b> |                          | <b>3,731</b>                      | <b>4,027</b> | <b>4,422</b> | <b>18.5</b>          |

*Table 4-95. Population Estimates in Subwatershed 080102080302.*

| Populated Place | County   | Population | NUMBER OF HOUSING UNITS |              |             |          |
|-----------------|----------|------------|-------------------------|--------------|-------------|----------|
|                 |          |            | Total                   | Public Sewer | Septic Tank | Other    |
| Medon           | Hardeman | 107        | 60                      | 0            | 56          | 4        |
| Toone           | Hardeman | 279        | 102                     | 69           | 33          | 0        |
| <b>Total</b>    |          | <b>387</b> | <b>162</b>              | <b>69</b>    | <b>89</b>   | <b>4</b> |

*Table 4-96. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 080102080302.*



*Figure 4-115. Location of Monitoring Sites in EPA's STORET Database in Subwatershed 080102080302. More information, including site names and locations, is provided in Appendix IV.*

**4.2.C.ii.a. Point Source Contributions.**

There are no point source contributions in this subwatershed.

**4.2.C.ii.b. Nonpoint Source Contributions.**

| LIVESTOCK COUNTS |        |          |                   |      |       |
|------------------|--------|----------|-------------------|------|-------|
| Beef Cow         | Cattle | Milk Cow | Chickens (Layers) | Hogs | Sheep |
| 510              | 1,179  | <5       | <5                | 534  | 8     |

**Table 4-97. Summary of Livestock Count Estimates in Subwatershed 080102080302.**  
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| LIVESTOCK COUNTS |          |        |          |                   |        |       |
|------------------|----------|--------|----------|-------------------|--------|-------|
| County           | Beef Cow | Cattle | Milk Cow | Chickens (Layers) | Hogs   | Sheep |
| Hardeman         | 9,184    | 15,877 | 62       | 28                | 5,221  | 144   |
| Madison          | 0        | 12,437 | 0        | 476               | 10,210 | 0     |

**Table 4-98. Summary of Livestock Count Estimates in Hardeman and Madison Counties.**  
According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older.

| County   | INVENTORY                       |                                 | REMOVAL RATE                          |                                   |
|----------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
|          | Forest Land<br>(thousand acres) | Timber Land<br>(thousand acres) | Growing Stock<br>(million cubic feet) | Sawtimber<br>(million board feet) |
| Hardeman | 247.1                           | 247.1                           | 5.0                                   | 18.6                              |
| Madison  | 140.7                           | 140.7                           | 2.4                                   | 11.5                              |

**Table 4-99. Forest Acreage and Annual Removal Rates (1987-1994) in Hardeman and Madison Counties.**



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| <b>CROPS</b>                          | <b>TONS/ACRE/YEAR</b> |
|---------------------------------------|-----------------------|
| Grass (Pastureland)                   | 0.93                  |
| Grass (Hayland)                       | 0.59                  |
| Grass, Forbs, Legumes (Mixed Pasture) | 1.89                  |
| Corn (Row Crops)                      | 12.64                 |
| Cotton (Row Crops)                    | 21.13                 |
| Sorghum (Row Crops)                   | 3.04                  |
| Soybeans (Row Crops)                  | 11.35                 |
| Wheat (Close-Grown Cropland)          | 10.85                 |
| All Other Close-Grown Cropland        | 0.47                  |
| Other Vegetable and Truck Crops       | 7.81                  |
| Summer Fallow (Other Cropland)        | 6.11                  |
| Other Cropland not Planted            | 3.51                  |
| Conservation Reserve Program Lands    | 0.34                  |
| Other Land in Farms                   | 0.08                  |
| Farmsteads and Ranch Headquarters     | 0.78                  |

**Table 4-100. Annual Estimated Total Soil Loss in Subwatershed 080102080302.**